

1600 South Second Street Mount Vernon, WA 98273-5202 ph 360.428.1617 fax 360.428.1620 www.nwcleanair.org

Did the facility receive any complaints from the public?

Yes (provide details below)

Air Operating Permit Excess Emissions Report Form Part II

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Name of Facility	Shell, Puge Refinery	t Sound	Reported by		Tim Figgie		
Date of notification	ate of notification April 13, 2011		Incident type: breakdown/ upset/startup or shutdown		Startup/Breakdown		
Start Date	April 13, 2011		Start Time:		00:20 AM		
End Date			End Time:	Гіте: 6:00 AM			
Process unit or system	Process unit or system(s): SRU 3						
Incident Description							
On April 13, 2011 SRU startup of the unit after resulted from a plugge the inability for the unit required Operations to the tail gas unit and hethere was no amine as The investigation into power card, which resunit. Had Operations average would likely not prevent a reoccurre conditions prior to start Immediate steps tak. The full amine acid gas	er it had bee ed impulse list to step into manually trigh SO2 emicid gas feed the cause of ulted in oxygbeen able to not have been ence of this extup activities en to limit the end impulse to limit the end impulse ence of the extup activities en to limit the end impulse ence of the ence of this extup activities en to limit the ence of the ence of the ence of this extup activities en to limit the ence of the enc	n down for ne to the So 'Reverse ip the unit ssions in the unit. It this event the restart the exceeded event Instructs. This would be duration	maintenance. COT stripper of Mode' due to to reset the Page incinerator found that the lives being stu unit without ument Technic uld help to ide and/or quant	The initial higoverhead presson a PLC logic poward presson as PLC resulting in stack. Once the property of the property of excess entity ent	th stack SO2 readings ure transmitter and ver issue. This automatic bypass of e unit was tripped ioned due to a bad nting restart of the 12 hour rolling the Hiway/Box C card power source.		
Applicable air operating permit term(s): 5.8.15							
Estimated Excess Emis	ssions:	Pollutant(s SO2):	Pounds (Estim	nate):		
Based on SO2 CEMS and calculated stack flow		302		82	ε		
The incident was the result of the following (check all that apply): Scheduled equipment startup Scheduled equipment shutdown Poor or inadequate design Careless, poor, or inadequate operation Poor or inadequate maintenance A reasonably preventable condition							

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Did the incident result in the violation of an ambient air quality standard
No No
Yes (provide details below)
Root and other contributing causes of incident:
The root cause of this incident was a failed PLC power card preventing operations from
immediately restarting the unit.
The root cause of the incident was: (The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615)) Identified for the first time Identified as a recurrence (explain previous incident(s) below – provide dates)
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below? No Yes (describe below)
A failed PLC power card prevented operations from immediately restarting the unit.
<u>Definition of NSPS "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 <u>Definition of NESHAP "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2
Analyses of measures available to reduce likelihood of recurrence (evaluate possible design,
operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost;
determine if an outside consultant should be retained to assist with analyses):
To prevent a reoccurrence of this event Instrument Technicians will check the Hiway/Box conditions prior to startup activities.
Description of corrective action to be taken (include commencement and completion dates):
See above
The properties were required, expelsive leasts for a small value.
If correction not required, explain basis for conclusion: See above
Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of
both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).
Is the investigation continuing?
Is the source requesting additional time for completion of the report? \square No \square Yes
Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.
Prepared By: _ Jason Smolsnik Date:April 27, 2011
Responsible Official or Designee: Susu Chara Date: 5/31/11